

A¹cd discussing its key features of operation so that one skilled in the art can readily see how its shortcomings are overcome by the present invention disclosed herein.--

5 Please amend page ~~6~~, line 18 through page 7, line 2 to read:

A² --Air leakage is exacerbated by rotation in the air delivery duct caused by the pumping fan. Air leaving the output nozzle rotates so that centrifugal force spreads out the airflow into a cone. This results in the generation of a larger amount of stray air. Air rotation can be eliminated by adding flow straightening vanes to the air delivery duct, but these are neither mentioned nor illustrated in the Day publication.--

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Please amend page ~~9~~, lines 1-3 to read:

A³ --Another reason for maintaining sealed operation is to prevent the vacuum cleaner nozzle from blowing surface dust around when it is held at a distance from the surface.--

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Please amend page ~~17~~, lines 17-22 to read:

A⁴ --Unlike other vacuum cleaners that employ centrifugal dust separation (e.g., the "cyclone" types discussed

previously), the present invention spins the air around at the blade speed of the impeller. Thus, the system acts like a high speed centrifuge capable of removing very small particles from the airflow. Therefore, no vacuum bag,
5 liquid bath, or filter is required.--

Please amend page 33, lines 6-14 to read:

--The preferred embodiment in FIG. 16 has air mixed with dirt and dust passing through the impeller 1609. If
10 such an arrangement is considered undesirable, the addition of a trap for large debris may be inserted into the air return path upstream of the impeller 1609. Additionally, the impeller may be replaced with axial air pump or
15 1601. The inner tube 1601 may be swelled out for this purpose.--